# 2012 MAPA Traffic Growth Report

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The growth analysis in this publication is based on data compiled by MAPA in cooperation with the cities of Bellevue Council Bluffs, La Vista, Omaha, Papillion; counties of Douglas, Pottawattamie, Sarpy; Iowa DOT, Nebraska DOR, FHWA and FTA.

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# MAPA Traffic Growth Report: Introduction and Methodology

The Traffic Growth Report is published periodically by the Metropolitan Area Planning Agency (MAPA) as part of its on-going process of monitoring transportation in the Omaha-Council Bluffs metropolitan area. This report provides a unique analysis of the change in vehicular traffic from a regional and sub-regional perspective. Traffic is listed in terms of total VMT (vehicle miles traveled), which is calculated by multiplying the length of a road segment by the average weekday daily traffic (AAWT). Statistics in the Traffic Growth Report are primarily derived from volumes shown on the 2012 Traffic Flow Map. For more specific information regarding traffic along or through particular streets or intersections, please consult the MAPA 2012 Traffic Flow Map.

The 2012 Traffic Growth Report adopts a slightly different methodology to measure the changes in VMT at regional and subregional levels. Traffic Analysis Districts (TADs) are bound by major roadways and are the level to which data is aggregated for this report. Additionally, rates of change within a given TAD are calculated based on the change at count locations where new count data has been collected since the last report (i.e. a location with a 2012 traffic count would be compared back to the AAWT value in 2010). As such the VMT per TAD and rates of change are representative only of a sampling of those locations at which new data was available for this report.

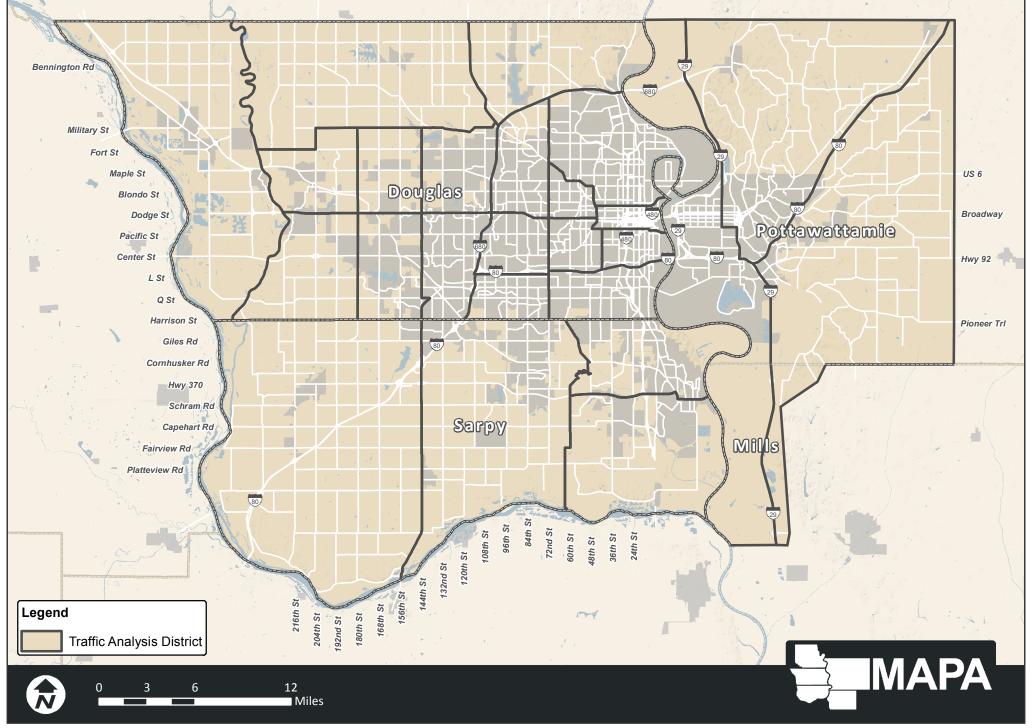
The Regional Traffic Patterns figure was created using data compiled from the MAPA Intersection Report, the MAPA Interchange Report, and the MAPA Travel Demand Model. Traffic flow recorded at each intersection was processed using ArcGIS Spatial Analyst and turned into an interpolated flow surface that demonstrates intersection connectivity. Additional traffic flow at each interchange is displayed with a corresponding point magnitude. Finally, road segments from the travel demand model where the traffic flow exceeds capacity (i.e. the amount of traffic that a given segment can support during normal conditions) show areas for potential capacity improvement. When considered together these three elements provide insight into transportation network performance and traffic flow trends in the region.

Pages 5-8 of the report show average growth rates by Automatic Traffic Recorder (ATR) station over the period 2002 to 2013. The maximum average growth rate of around 5.79% is observed at station N1 (North of Gretna). The ATR station on I-92 South of Ave N Council Bluffs experienced an average rate of decrease of over 3% during the same period.

The total Douglas County VMT grew by 1%, Sarpy County VMT remained nearly level and Pottawattamie County VMT decreased by 2% from 2010. The western part of Omaha region along the Dodge Expressway and western Sarpy County continued to grow in accordance with the continued new development in the area. Additionally some areas such as the central parts of Sarpy County showed a decrease in traffic.

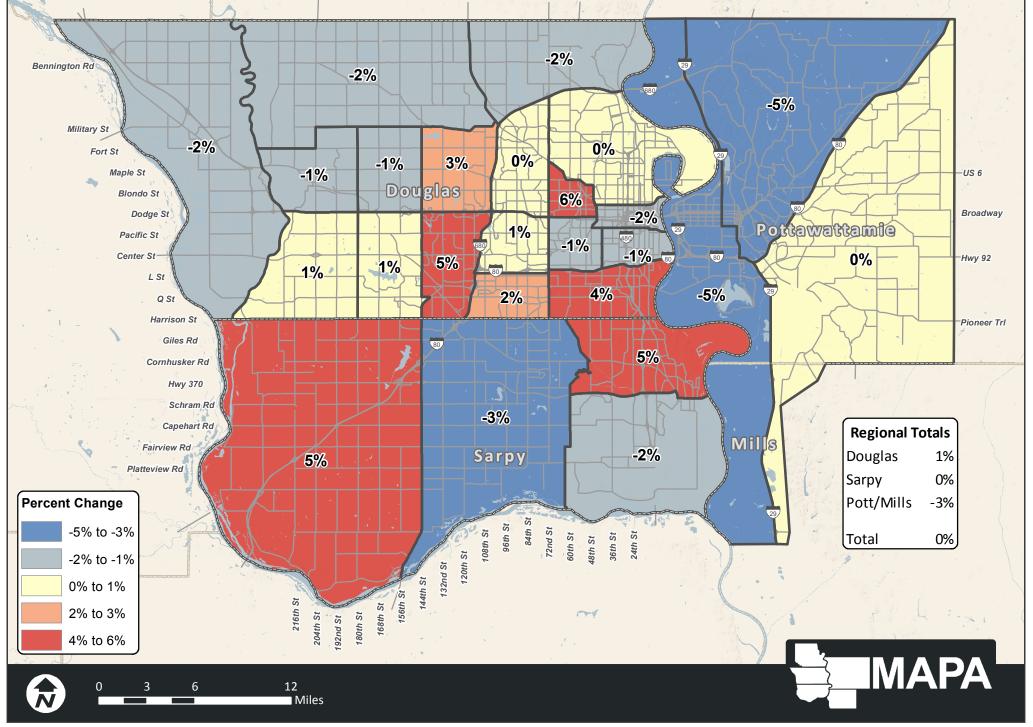
## **Corridor Map**

## Traffic Growth Report



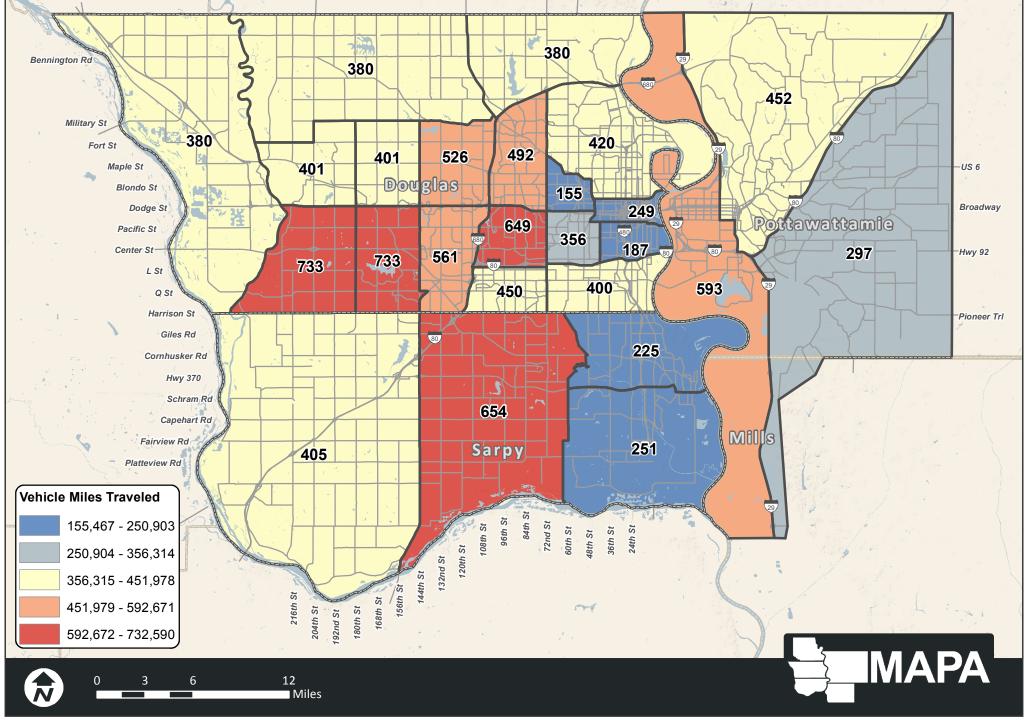
## **Estimated Percent Change in Vehicle Miles Traveled 2010 - 2012**

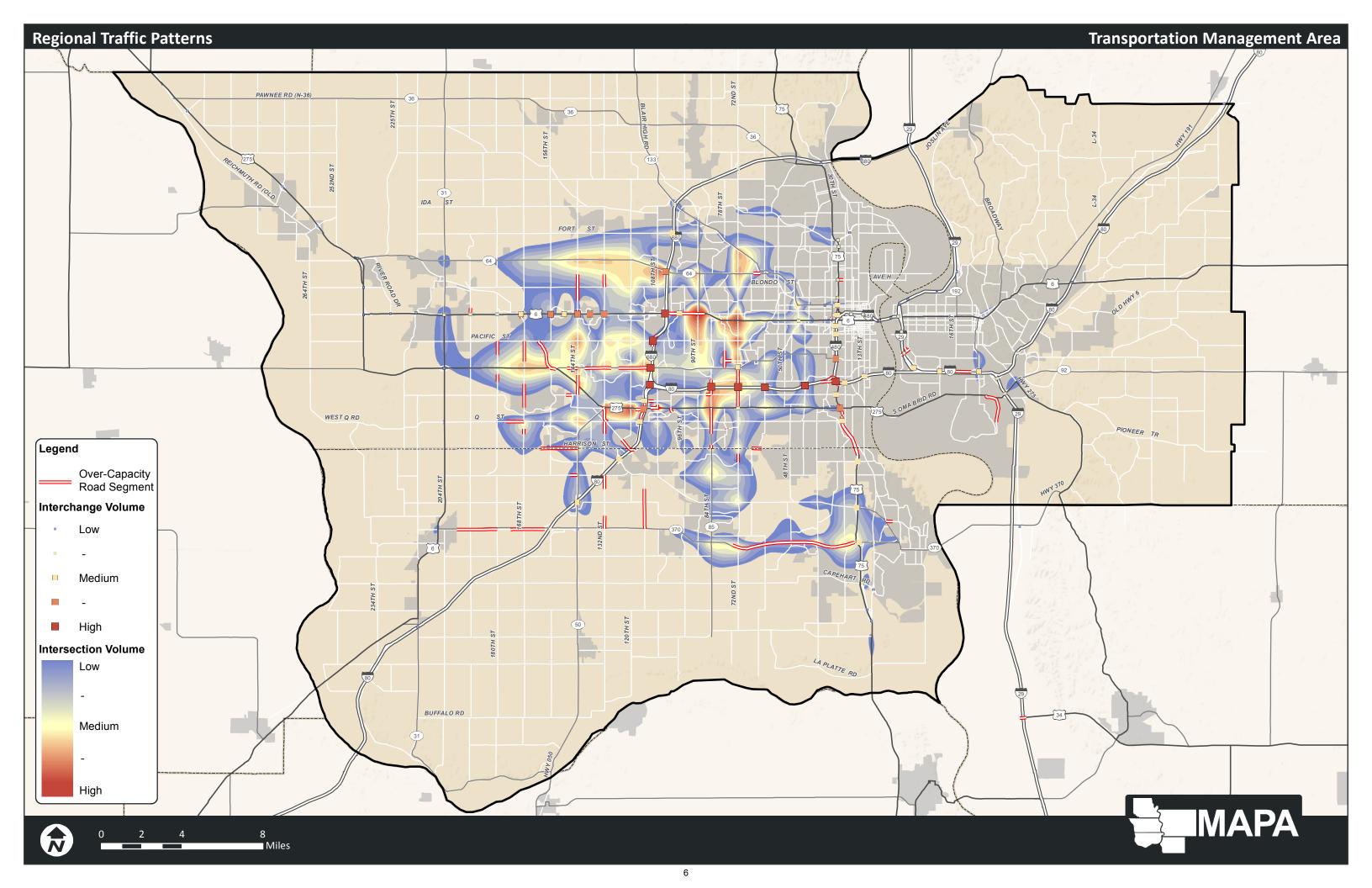
## **2012 Traffic Growth Report**



## 2012 Average Weekday Vehicle Miles Traveled (in thousands)

## **2012 Traffic Growth Report**





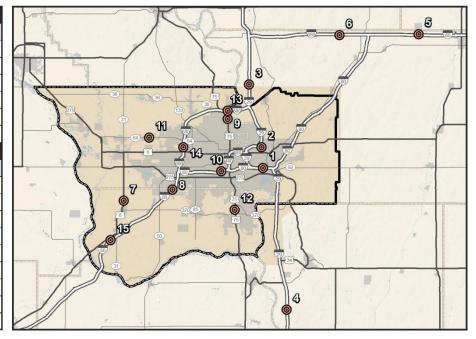
#### **MAPA Area Continuous Traffic Counts**

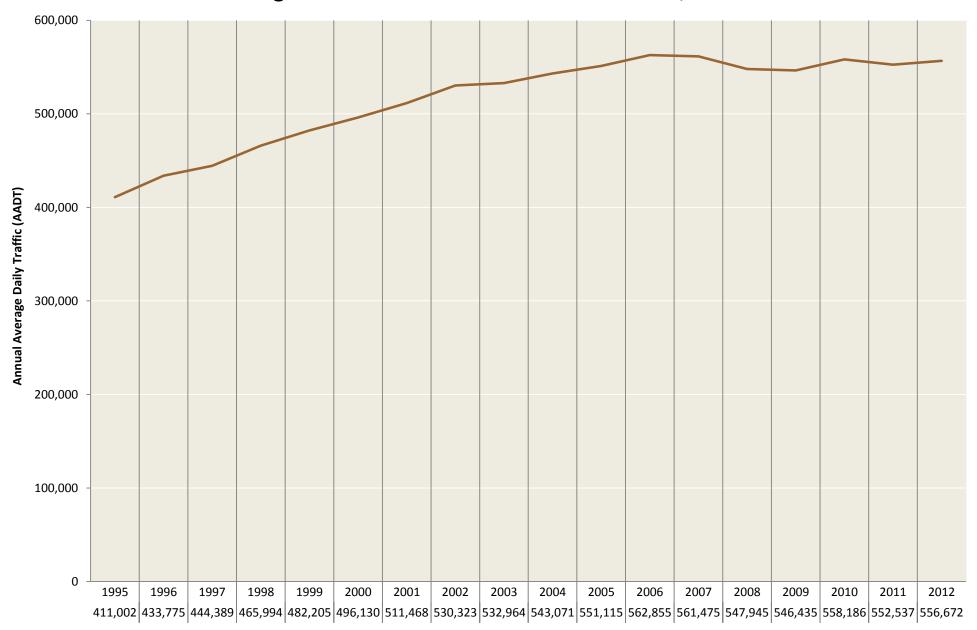
The States of Nebraska and Iowa both have traffic counting sites that count vehicles on a continous basis, for all 365 days of the year, in the Omaha-Council Bluffs metro area. These counters, called "Automatic Traffic Recorders" (ATRs), provide an excellent source of traffic data. Traffic data and growth trends for the locations are shown below.

There are currently 15 ATRs in the region, with 9 located inNebraska side and 5 located in Iowa (one location in Iowa was discontinued in after 2012). ATRS are located on freeways and arterials in urban, suburban, and rural areas. Historically, these numbers have been reasonably consistent with data from MAPA's Traffic Growth Report. Between 2010 and 2012, the ATR data decreased 2.67%. This differs slightly with MAPA's traffic growth analysis that showed a neglible change from 2010. Some of this may be attributable to decreases in outlying rural ATR locations not include in MAPA's traffic growth analysis.Newly available data for the metro area in 2013 shows a moderate increase of 1.58% between 2012 and 2013 for the MAPA region.

The charts on the following pages track the growth of traffic on roadways monitored by ATRs in the MAPA region. The charts and graphs in this section only include data from ATRs for which a continuous set of data for the period reflected on each graphic. As such these charts reflect a sampling of the available ATR data but allow us to make comparisons and generalizations for these periods. Additional graphs illustrate the average annual rates of change for the entire region and for each traffic record over the 17 year period and since the last MAPA Traffic Growth Report.

lo	owa ATI	R Locations							
	Route	Location	2002	2004	2006	2008	2010	2012	2013
<b>1</b> I-	-29/80	.6 mi West of IA 192	76,024	75,623	79,350	79,516	75,988	75,521	N/A
2 1/	A 192	South of Ave N	10,061	9,442	9,047	8,858	8,719	6,004	5,949
3 I-	-29	3 mi North of South I-680 Jct	21,070	21,319	21,484	21,033	20,593	19,730	19,907
4 1-	-29	4 mi South of US-34 Jct (Pacific)	11,917	12,101	12,495	12,300	11,868	12,008	12,337
5 I-	-80	1.5 mi West of Co M-16 (Shelby)	22,379	22,496	22,670	22,752	22,950	N/A	23,070
6 I-	-680	6.4 mi West of I-80	N/A	N/A	N/A	N/A	6,196	5,947	5,913
N	Nebraska ATR Locations								
	Route	Location	2002	2004	2006	2008	2010	2012	2013
7 U	JS 6	North of Gretna	9,156	11,703	13,424	15,470	15,048	16,162	17,178
8 I-	-80	Just South of Douglas-Sarpy Line	53,750	56,682	60,285	57,913	60,148	60,537	63,187
9 U	JS 75	30th St South of I-680 in Omaha	14,932	14,708	14,607	14,549	14,218	13,544	13,242
10 I-	-80	I-80 at 42nd St	185,153	166,966	168,298	170,739	164,863	169,359	172,229
<b>11</b> N	<b>I-64</b>	At 160th St	N/A	N/A	N/A	22,417	22,584	23,678	24,415
12 U	JS 75	Just North of Jct N-370 Bellevue	43,806	44,441	44,273	42,463	43,712	44,744	45,076
13 I-	-680	Mormon Bridge Omaha	16,046	16,254	15,656	15,401	16,000	14,004	14,053
14  -	-680	I-680 North of Dodge St	70,000	73,000	80,095	80,077	84,107	83,817	85,175
15 I-	-80	West of Gretna Interchange	36,595	39,500	41,400	38,889	40,830	41,242	42,237





MAPA Regional Automatic Traffic Recorder Counts, 1995-2012

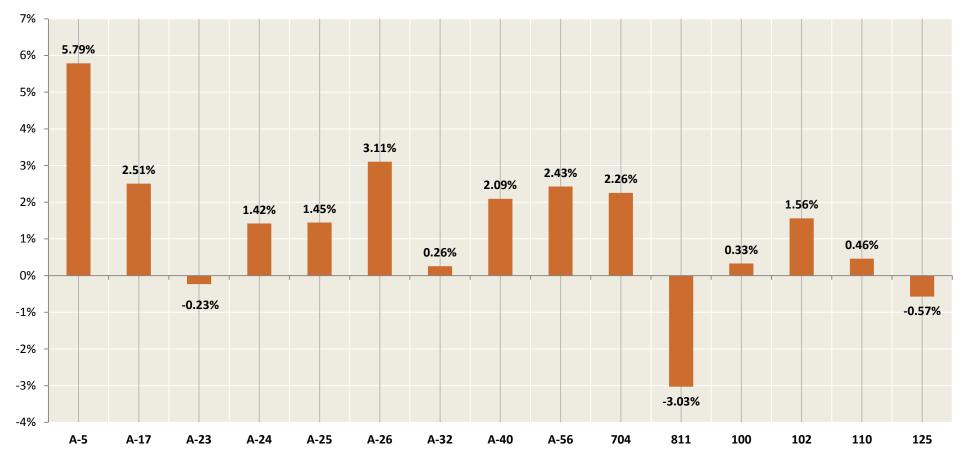


## Annual Rate of Change of Automatic Traffic Recorders (ATR) 1995-2012 for Metropolitan Region



# Annual Rate of Change of Automatic Traffic Recorders (ATR)

## Annual Rate of Change of Automatic Traffic Recorders by Station 1995-2012

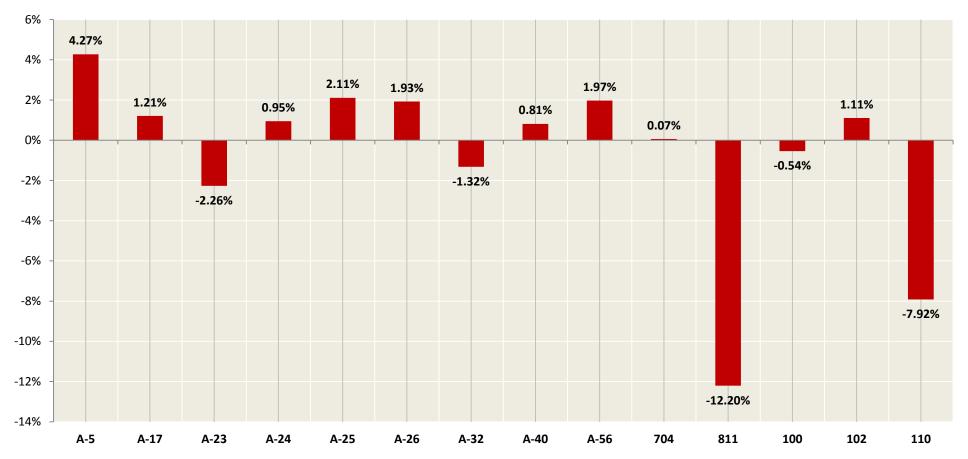


#### Automatic Traffic Recorder Station Index

A-5	US 6 North of Gretna	A-26
A-17	I-80 Just South of Douglas - Sarpy Line	A-32
A-23	US 75/30th Street South of I-680 in Omaha	A-40
A-24	I-80 at 36th Street in Omaha	A-56
A-25	N-64 At 160th Street	704

US 75 Just North of Jct. N-370 in Bellevue
I-680 Mormon Bridge in Omaha
I-680 North of Dodge Street in Omaha
I-80 West of Gretna Interchange
I-29/80 .6 MI W OF IA 192 Council Bluffs

811	IA 192 S of Ave N Council Bluffs
100	I-29 3.0 MI N of S JCT I 680 Honey Creek
102	I-29 4.0 MI S of US 34 Pacific Jct.
110	I-80 1.5 MI W of Co M16 Shelby
125	I-680 6.4 mi West of I-80



# Annual Growth Rate of Automatic Traffic Recorders by Station 2010-2012

#### **Automatic Traffic Recorder Station Index**

A-5 U	JS 6 North of Gretna	A-26	US 75 Just North of Jct. N-370 in Bellevue	811	IA 192 S of Ave N Council Bluffs
A-17  -	-80 Just South of Douglas - Sarpy Line	A-32	I-680 Mormon Bridge in Omaha	100	I-29 3.0 MI N of S JCT I 680 Honey Creek
A-23 U	JS 75/30th Street South of I-680 in Omaha	A-40	I-680 North of Dodge Street in Omaha	102	I-29 4.0 MI S of US 34 Pacific Jct.
A-24 I-	-80 at 36th Street in Omaha	A-56	I-80 West of Gretna Interchange	110	I-80 1.5 MI W of Co M16 Shelby
A-25 N	J-64 At 160th Street	704	I-29/80 .6 MI W OF IA 192 Council Bluffs		